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Riverside County Flood Control and Water Conservation
District

on behalf of

Riverside County NPDES MS4 Permit Program







Beneficial Use Restoration

2012 Comprehensive Bacteria Reduction Plan for Riverside County

2010 Santa Ana MS4 Permit For Riverside County

2005 Middle Santa Ana River TMDL

Santa Ana Region Recreation Uses Basin Plan Amendment

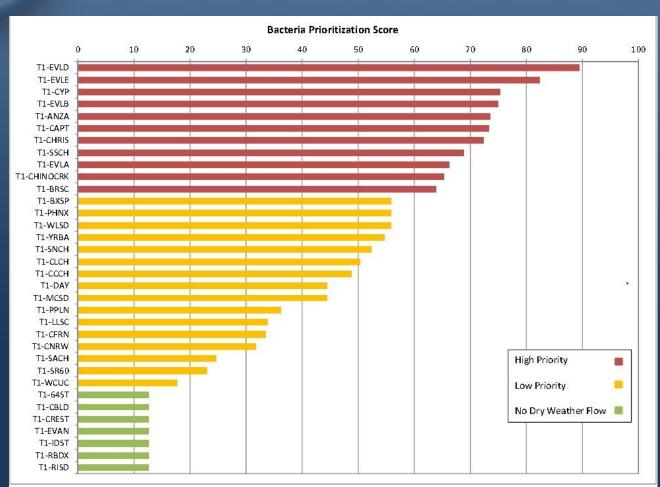


<u>Step 1:</u>

Eliminate human coliform sources



Tier 2 Source Assessment Plan





Comprehensive Field Investigations





Use aggressive microbial source assessment to identify and eliminate









Sewer Cross Connections High Risk Homeless Encampments

Leaking Septics



<u> Step 2:</u>

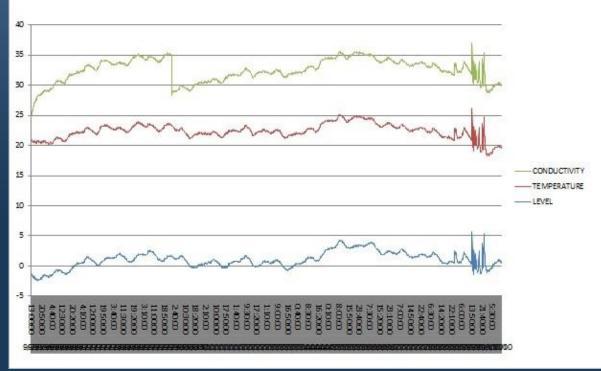
Eliminate Nuisance Dry Weather Flows



Dry Weather Flow Assessment



Eastvale Line A





Step 3: Supplement with structural solutions where necessary

- Dry Weather Diversion
- MS4 Retrofit Projects
- Integrated Water Management

A UAA and Diversion Project is being considered here (Temescal Channel):





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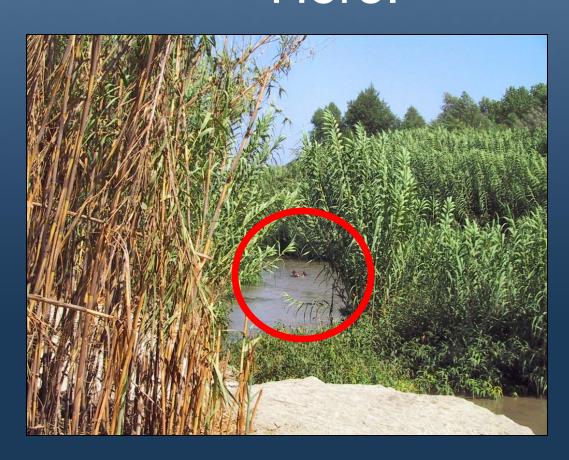
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Los Angele

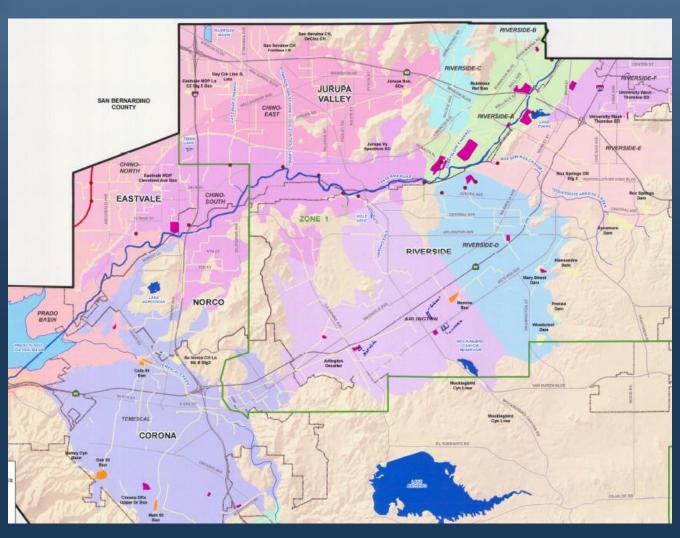


To Better Protect Downstream Beneficial Uses Here:





We are in the process of identifying other retrofit opportunities.





Step 4:

Characterize Other Sources

- Natural Sources
- Sediment Resuspension
- Other Sources



Evaluate Other Sources

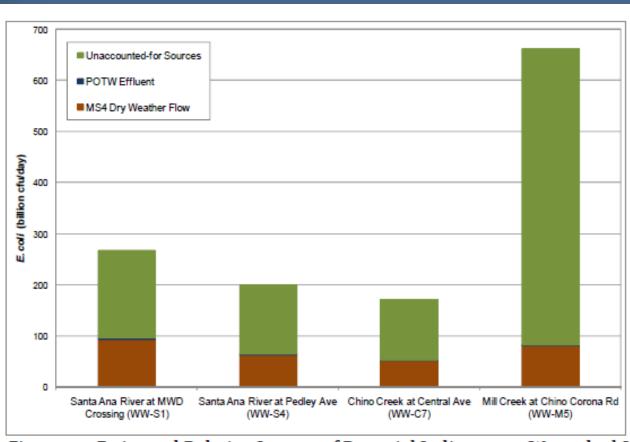


Figure 3-2. Estimated Relative Sources of Bacterial Indicators at Watershed-Wide Compliance Locations





END OF SHOW



Santa Ana River

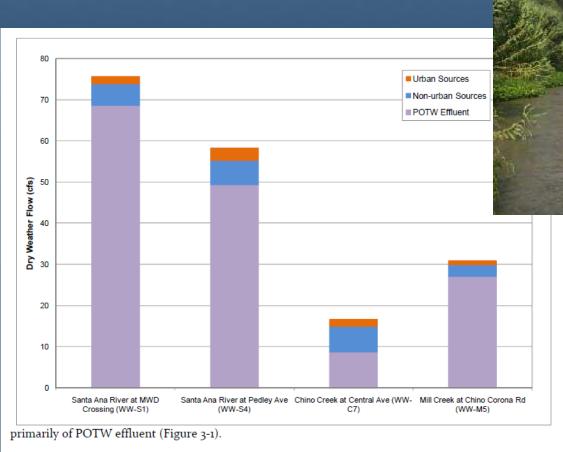


Figure 3-1. Estimated Relative DWF Contributions to Watershed-Wide Compliance Sites



Photos of removal of Box Springs Sewer Cross Connection Elimination as a result of 2008 Microbial Source Assessment Study









